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Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	HONNAPPA MURTHY
Date of Testing	:	23-07-19
Type of Mix	:	WMM
Sample I/D	:	WMM 8

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	23-07-19
		Date of testing:	23-07-19
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	400	400	4.00	96.00	95-100
22.4	1990	2390	23.90	76.10	60-80
11.2	2270	4660	46.60	53.40	40-60
4.75	2135.0	6795	67.95	32.05	25-40
2.36	1150.0	7945	79.45	20.55	15-30
0.6	430.0	8375	83.75	16.25	8.0-22.0
0.075	925.0	9300	93.00	7.00	0-8
Pan	700.0	10000			
Total	10000.0				

Consultant's Representative

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Project Division
Yelahanka Zone
Bangalore

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Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	HONNAPPA MURTHY
Date of Testing	:	23-07-19
Type of Mix	:	WMM
Sample I/D	:	WMM 9

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	23-07-19
		Date of testing:	23-07-19
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	410	410	4.10	95.90	95-100
22.4	1970	2380	23.80	76.20	60-80
11.2	2285	4665	46.65	53.35	40-60
4.75	2253.0	6918	69.18	30.82	25-40
2.36	1180.0	8098	80.98	19.02	15-30
0.6	450.0	8548	85.48	14.52	8.0-22.0
0.075	925.0	9473	94.73	5.27	0-8
Pan	527.0	10000			
Total	10000.0				

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Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	HONNAPPA MURTHY
Date of Testing	:	23-07-19
Type of Mix	:	WMM
Sample I/D	:	WMM 10

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	23-07-19
		Date of testing:	23-07-19
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	370	370	3.70	96.30	95-100
22.4	1980	2350	23.50	76.50	60-80
11.2	2260	4610	46.10	53.90	40-60
4.75	2100.0	6710	67.10	32.90	25-40
2.36	1165.0	7875	78.75	21.25	15-30
0.6	430.0	8305	83.05	16.95	8.0-22.0
0.075	920.0	9225	92.25	7.75	0-8
Pan	775.0	10000			
Total	10000.0				

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Project	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	HONNAPPA MURTHY	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**6/8/2019**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6175	6250
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9714	9700
Wt. of sand in cone (w3) gms.	855	850
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3431	3450
Bulk density of sand (γs)gm/cc	1.32	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.38	2.37
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.12	2.12
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.94	98.84
% compaction required	98%	98%

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Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	HONNAPPA MURTHY	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**6/8/2019**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6165	6245
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9714	9700
Wt. of sand in cone (w3) gms.	855	850
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3431	3450
Bulk density of sand (γs)gm/cc	1.32	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.11	2.11
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.78	98.76
% compaction required	98%	98%

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Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	HONNAPPA MURTHY	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**6/8/2019**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6172	6250
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9714	9700
Wt. of sand in cone (w3) gms.	855	850
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3431	3450
Bulk density of sand (γs)gm/cc	1.32	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.12	2.12
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.89	98.84
% compaction required	98%	98%

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Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	HONNAPPA MURTHY	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**6/8/2019**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6171	6243
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9714	9700
Wt. of sand in cone (w3) gms.	855	850
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3431	3450
Bulk density of sand (γs)gm/cc	1.32	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.12	2.11
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.88	98.73
% compaction required	98%	98%

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	HONNAPPA MURTHY

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	**28-08-19**
Sample Location	At plant	**Date of Testing**	**28-08-19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	390.00	378.00	382.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	292.00	283.00	291.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	98.00	95.00	91.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.13	25.13	23.82	
5	Average Aggregate impact value	(%)	24.69			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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Project	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	Bruhat Bengaluru Mahanagara Palikē
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	HONNAPPA MURTHY

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM		**Proposed Use**	**DBM**
Sample Location	At plant		**Date of Sampling**	**28-08-19**
			Date of Testing	**28-08-19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7842	672	7172	385
31.5	25.0	4251	204	3572	291
25.0	20.0	2450	272	1972	205
20.0	16.0	1564	341	1000	271
16.0	12.5	560	90	463	160
12.5	10.0	284	62	235	85
10.0	6.3	132	80	85	60
Total		**17083**	**1721**	**14499**	**1457**

Results

Flakiness Index(%):	10.07	
Elongation Index(%):	10.05	
Combined FI+EL (%)	20.12	

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Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	HONNAPPA MURTHY
Date of Testing	:	28-08-19
Type of Mix	:	DBM
Sample I/D	:	DBM-1

GRADATION FOR DBM

(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	**Date of Sampling:**	**28-08-19**
		Date of testing:	**28-08-19**
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	85	85	5.67	94.33	90-100
19.00	110	195	13.00	87.00	71-95
13.20	225	420	28.00	72.00	56-80
4.750	340	760	50.67	49.33	38-54
2.360	180	940	62.67	37.33	28-42
0.300	280	1220	81.33	18.67	7-21
0.075	170	1390	92.67	7.33	2-8
Pan	110	1500			
Total	1500.0				

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX		
Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	HONNAPPA MURTHY
Date of Testing	:	28-08-19
Type of Mix	:	DBM
Sample I/D	:	DBM-1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	835	950
2. Weight of Mixture after extraction, g	799	909
3. Weight of Bitumen	36	41
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	38.00	43.00
8. Bitumen content in %	4.55	4.53
9. Average Bitumen content in %	4.54	
10. Minimum Bitumen content in %	4.50	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	**Date of Sampling:**	28-08-19
		Date of testing:	28-08-19
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	800

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	38.0	38.0	4.75	95.25	90-100
19.00	122.0	160.0	20.00	80.00	71-95
13.20	105.0	265.0	33.13	66.88	56-80
4.750	160.0	425.0	53.13	46.88	38-54
2.360	95.0	520.0	65.00	35.00	28-42
0.300	145.0	665.0	83.13	16.88	7-21
0.075	85.0	750.0	93.75	6.25	2-8
Pan	50.0				
Total	800.0				

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Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	HONNPPA MURTHY
Date of Testing	:	28-08-19
Type of Mix	:	Tack coat DBM
Sample I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.760	0.744
Final weight of plate after application of tack Coat (c)	Kg	0.783	0.767
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	HONNAPPA MURTHY

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	**29-08-19**
Sample Location	At plant	**Date of Testing**	**29-08-19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	391.00	378.00	385.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	301.00	285.00	291.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	90.00	93.00	94.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.02	24.60	24.42	
5	Average Aggregate impact value	(%)	24.01			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
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Bangalore

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Project	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4. Drilling of Borewells and Maintance in Ward
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	HONNAPPA MURTHY

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM		**Proposed Use**	**DBM**
Sample Location	At plant		**Date of Sampling**	**29-08-19**
			Date of Testing	**29-08-19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7842	675	7175	385
31.5	25.0	4231	205	3570	280
25.0	20.0	2451	270	1980	210
20.0	16.0	1560	345	998	270
16.0	12.5	555	96	460	168
12.5	10.0	485	60	230	85
10.0	6.3	130	85	90	60
Total		**17254**	**1736**	**14503**	**1458**

Results

Flakiness Index(%):	10.06
Elongation Index(%):	10.05
Combined FI+EL (%)	20.11

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Name of Work	:	1. Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06 2. Improvements to Roads and Drains in Hegdenagar and Surrounding areas in Ward No. 06 3. Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06 4.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	HONNAPPA MURTHY
Date of Testing	:	29-08-19
Type of Mix	:	DBM
Sample I/D	:	DBM-2

GRADATION FOR DBM

(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	**Date of Sampling:**	**29-08-19**
		Date of testing:	**29-08-19**
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	85	85	5.67	94.33	90-100
19.00	118	203	13.53	86.47	71-95
13.20	225	428	28.53	71.47	56-80
4.750	340	768	51.20	48.80	38-54
2.360	180	948	63.20	36.80	28-42
0.300	270	1218	81.20	18.80	7-21
0.075	175	1393	92.87	7.13	2-8
Pan	107	1500			
Total	1500.0				

Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore